

**Paper reference 31761H**  
**Pearson BTEC Level 3**  
**Nationals Certificate, Extended**  
**Certificate, Foundation Diploma,**  
**Diploma, Extended Diploma**

**Information Technology**  
**UNIT 2: Creating Systems to Manage**  
**Information**  
**(Part B)**

**Time: 2 hours**

**X67968RA**

**YOU MUST HAVE**

**activity6.rtf,**

**activity7.rtf,**

**partB\_database.accdb or**

**partB\_database.mdb**

**YOU WILL BE GIVEN**

**Nil**

**INSTRUCTIONS**

- **Part A and Part B** contain the material for the completion of the assessment under supervised conditions.
- There are 40 marks for **Part A** and 26 marks for **Part B**, giving a total mark for the assessment of 66.
- **Part A and Part B** are specific to each series and this material must be issued only to learners who have been entered to take the assessment in the specified series.

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**INSTRUCTIONS continued**

- Learners **MUST ONLY** have access to **Part B** during this examination session.
- This booklet should be kept securely until the start of the 2 – hour supervised assessment period.
- **Part A** materials **MUST NOT** be accessed during the completion of **Part B**.
- **Part A** and **Part B** should be submitted together for each learner.
- This booklet should not be returned to Pearson.
- Answer **ALL** activities.

**INFORMATION**

- The total mark for this paper is 26.
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## INSTRUCTIONS TO INVIGILATORS

This paper must be read in conjunction with the unit information in the specification and the **BTEC Nationals Instructions for Conducting External Assessments (ICEA)** document.

See the Pearson website for details.

Refer carefully to the instructions in this task booklet and the **BTEC Nationals Instructions for Conducting External Assessments (ICEA)** document to ensure that the assessment is supervised correctly.

The 2 – hour **Part B** activities must be carried out under examination conditions.

The database and electronic templates for Activities 6 and 7 are available on the website for centres to download for candidate use.

Learners must complete **Part B** on a computer using the templates provided and appropriate software. All work must be saved as PDF documents for submission.

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**INSTRUCTIONS TO INVIGILATORS continued**

**Invigilators may clarify the wording that appears in Part B but cannot provide any guidance in completion of the activities.**

**Invigilators should note that they are responsible for maintaining security and for reporting issues to Pearson.**

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**INSTRUCTIONS TO INVIGILATORS continued****MAINTAINING SECURITY**

- **Learners must not bring anything into the examination environment or take anything out.**
- **Centres are responsible for putting in place appropriate checks to ensure that only permitted material is introduced into the examination environment.**
- **Internet access is NOT permitted.**
- **Learners' work must be regularly backed up.**  
**Learners should save their work to their folder using the naming instructions indicated in each activity.**
- **During any permitted break, and at the end of the examination, materials must be kept securely, and no items removed from the supervised environment.**
- **Learners can only access their work under supervision.**
- **User areas must only be accessible during the examination session and only by the individual learners.**

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**INSTRUCTIONS TO INVIGILATORS continued**

- Any materials being used by learners must be collected in at the end of the examination.
- Following completion of **Part B**, all materials must be retained securely for submission to Pearson.
- **Part A** materials must not be accessed during the completion of **Part B**.

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**INSTRUCTIONS TO INVIGILATORS continued****OUTCOMES FOR SUBMISSION**

Each learner must create a folder to submit their work.

The folder should be named according to this naming convention:

**[Centre #]\_[Registration number #]\_  
[surname]\_[first letter of first name]\_PartB**

Example: **Joshua Smith** with registration number **F180542** at centre **12345** would have a folder titled

**12345\_F180542\_Smith\_J\_PartB**

Each learner will need to submit 3 PDF documents **AND** their final database within their folder.

The 3 PDF documents should use these file names:

**ACTIVITY 6:**

**activity6\_[Registration number #]\_[surname]\_  
[first letter of first name]**

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**INSTRUCTIONS TO INVIGILATORS continued**

**ACTIVITY 7:**

**activity7\_[Registration number #]\_[surname]\_  
[first letter of first name]**

**ACTIVITY 8:**

**activity8\_[Registration number #]\_[surname]\_  
[first letter of first name]**

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## **INSTRUCTIONS FOR LEARNERS**

**Read the scenario, brief, and activities information carefully.**

**Plan your time carefully to allow for the preparation and completion of all the activities.**

**Internet access is NOT allowed.**

**You will complete this activities under supervision and your work will be kept securely at all times.**

**You must work independently throughout the examination and must not share your work with other learners.**

**Your invigilator may clarify the wording that appears in Part B but cannot provide any guidance in completion of the activities.**

**Part A materials MUST NOT be accessed during the completion of Part B.**

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## **INSTRUCTIONS FOR LEARNERS continued**

### **OUTCOMES FOR SUBMISSION**

**You must create a folder to submit your work.**

**The folder should be named according to this naming convention:**

**[Centre #]\_[Registration number #]\_  
[surname]\_[first letter of first name]\_PartB**

**Example: Joshua Smith with registration number F180542 at centre 12345 would have a folder titled**

**12345\_F180542\_Smith\_J\_PartB**

**You will need to submit 3 PDF documents AND your final database within this folder.**

**The 3 PDF documents should use these file names:**

**ACTIVITY 6:**

**activity6\_[Registration number #]\_[surname]\_  
[first letter of first name]**

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**INSTRUCTIONS FOR LEARNERS continued**

**ACTIVITY 7:**

**activity7\_[Registration number #]\_[surname]\_  
[first letter of first name]**

**ACTIVITY 8:**

**activity8\_[Registration number #]\_[surname]\_  
[first letter of first name]**

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## **Part B Brief**

**You are advised to spend 10 minutes reading the Scenario and the activities you are to complete.**

**You may make notes and/or highlight information to use in the completion of the documents you need to produce for your activities.**

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### **SCENARIO**

**‘Martlepool College Ladies Football Club’ has partially developed a database that will eventually merge with the database you created in **Part A**.**

**They play as part of a league.**

**There are 12 clubs in the league, including Martlepool College.**

**There are 22 fixtures.**

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## **Part B BRIEF continued**

**Martlepool plays against each of the clubs twice; home and away.**

**Each fixture is assigned a referee.**

**Referees must have a Level 5, 6 or 7 qualification.**

**The number of goals scored in each fixture needs to be recorded:**

- **goals scored by Martlepool College are ‘goals for’**
- **goals scored by their opponents are ‘goals against’.**

**The result of a fixture needs to be generated:**

- **a ‘win’ is where Martlepool College have scored more goals than their opponent**
- **a ‘loss’ is where their opponent scores more goals**
- **a ‘draw’ is where the number of goals is equal.**

**Statistics also need to be generated including:**

- **the overall number of goals scored by Martlepool College**
  - **the overall number of goals scored by their opponents.**
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## **Part B SET TASK**

**You must complete ALL activities within Part B.**

**Produce your documents using a computer.**

**Save your documents in your folder ready for submission using the formats and naming conventions indicated.**

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**ACTIVITY 6: FORMS – You are advised to spend 1 hour and 10 minutes on this activity.**

**NOTE**

- The structure of the tables provided should not be changed in any way, e.g. do not add validation, do not change data types.
- You will **ONLY** be required to use `tblReferee`, `tblTeam` and `tblFixture`.

**Create an efficient interface that will facilitate database input by producing:**

- (a) an input form to add a referee.
  - The form should be ready for data entry.
  - The referee's surname must be present.
  - The referee's email address must use a valid format.
  - The user should be able to select the referee's level.
  - The level selected must be within the valid range.

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**Turn over**



**ACTIVITY 6 (a) continued**

- Valid data should be appended to the referee table, a save message should display and the form should be cleared ready for the next data entry.
- A suitable error message should appear where invalid data has been used.

**(b) an input form to add the results of a fixture and view statistics.**

- The form should NOT include validation for any fields.
- The form should NOT include an automated routine to save the data.
- The user should be able to select the team name from a drop down box that displays only the fixtures that do not yet have any results.
- The user should be able to enter the goals scored by Martlepool College, 'goals for'.
- The user should be able to enter the goals scored by the opposition, 'goals against'.

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**ACTIVITY 6 (b) continued**

- The result of the fixture should be generated and displayed as win, loss or draw for Martlepool College.
- The overall number of goals for Martlepool College should be displayed including the results of the current fixture.
- The overall number of goals against Martlepool College should be displayed including the results of the current fixture.

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**ACTIVITY 6 continued**

Evidence your interface as screenprints using the given **activity6.rtf** template.

Your screenprints must show:

- the **DESIGN** view and **FORM** view of all the forms you have created
- the **DESIGN** view of any queries you have created and used with the forms including fields and criteria
- the **DATASHEET** view of any queries you have created and used with the forms
- details of any calculations, validation and macros / code you have created and used with the forms.

Ensure sufficient information is provided to allow a competent third party to maintain the database.

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**ACTIVITY 6 continued**

**Save the evidence of your interface as a PDF in your folder for submission as**

**activity6\_[Registration number #]\_[surname]\_[first letter of first name]**

**(Total for Activity 6 = 14 marks)**

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**ACTIVITY 7: INTERFACE TESTING – You are advised to spend 20 minutes on this activity.**

**Test the interface of your relational database using suitable test data (normal, erroneous and extreme as appropriate).**

**You must not add validation to any of the tables.**

**You must provide evidence of FORM LEVEL testing that proves:**

- 1. the referee's name must be present**
- 2. the referee's email must use a valid format**
- 3. the level of the referee cannot be below the valid range**
- 4. a record will save in the referee table if the referee's details are present and valid**
- 5. the result of the fixture will be generated correctly as win, loss or draw**
- 6. the overall number of goals for Martlepool College should be displayed including the current fixture**
- 7. the overall number of goals against Martlepool College should be displayed including the current fixture.**

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**ACTIVITY 7 continued**

**Complete the test log to show how you have tested your input forms using the given `activity7.rtf` template.**

**Save your test log as a PDF in your folder for submission as**

**activity7\_[Registration number #]\_[surname]\_[first letter of first name]**

**(Total for Activity 7 = 6 marks)**

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**ACTIVITY 8: INTERFACE EVALUATION – You are advised to spend 20 minutes on this activity.**

**You should consider the quality, performance and usability of the interface you have created in terms of how well it ensures:**

**Referee form**

- **the referee's name must be present**
- **the referee's email address must use a valid format**
- **the level of the referee cannot be below the valid range**
- **the level of the referee cannot be above the valid range**
- **a record will save in the referee table if the referee's details are present and valid**

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## **ACTIVITY 8 continued**

**Add the results of a fixture and view statistics form**

- the user should be able to select the team name from a drop down box that displays only the fixtures that do not yet have any results
- the result of the fixture will be generated correctly as win, loss or draw
- the overall number of goals for Martlepool College should be displayed including the current fixture
- the overall number of goals against Martlepool College should be displayed including the current fixture.

**Save your evaluation as a PDF in your folder for submission as**

**activity8\_[Registration number #] \_  
[surname]\_[first letter of first name]**

**(Total for Activity 8 = 6 marks)**

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**TOTAL FOR PART B = 26 MARKS**

**END OF PAPER**

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